

Claims

1. (Amended) A disc-type recording and/or reproducing apparatus configured to load a disc-shaped recording medium at a recording/reproducing position by pulling a tray in on which the disc-shaped recording medium is mounted, and to perform a recording and/or a reproducing with a head, characterized by including:

on a pull-in path of the tray, tray detection means for detecting a predetermined portion of the tray; and disc detection means for detecting the disc-shaped recording medium,

wherein the tray detection means includes a target section of detection which is provided, along the pull-in direction of the tray, at a predetermined position and the disc detection means directly detects the disc-shaped recording medium, and a combination of a detection by means of the disc detection means and a detection by means of the tray detection means allows to detect whether or not the disc-shaped recording medium is properly mounted on the tray, or of a size of the disc-shaped recording medium.

2. (Amended) The disc-type recording and/or reproducing apparatus according to claim 1 characterized by including:

the tray detection means and the disc detection means on a peripheral edge of an opening, for leading the tray in has, at a front panel.

3. (Amended) The disc-type recording and/or reproducing apparatus according to claim 2 characterized in that:

the tray detection means includes a light emitter and

a light detector, and also includes a target section of detection including a reflective or a non-reflective portion at the tray side; and a detection operation is carried out in which the light detector detects whether or not a light emitted from the light emitter is reflected at the target section of detection.

4. (Amended) The disc-type recording and/or reproducing apparatus according to claim 2 characterized in that:

the disc detection means includes the light emitter and the light detector; and the light detector is permitted to carry out the detection operation by allowing the light emitted from the light emitter to be reflected from the disc-shaped recording medium.

5. (Amended) The disc-type recording and/or reproducing apparatus according to claim 7 characterized in that:

a reflective foil is attached, along the pull-in direction of the tray, on a back surface opposite to a mounting surface for mounting the disc-shaped recording medium; a lack portion is formed where the reflection foil is absent corresponding to a size of the disc-shaped recording medium; and it is judged such that the disc-shaped recording medium is properly mounted if the tray detection means detects the lack portion and if the disc detection means detects the disc-shaped recording medium; while in cases other than the above, it is judged such that the disc-shaped recording medium is not properly mounted.

6. (Amended) The disc-type recording and/or reproducing apparatus according to claim 7 characterized in that:

the disc detection means are provided in a pair to be positioned at both sides of the moving path of the center of the disc-shaped recording medium; a reflective foil is attached, along the pull-in direction of the tray, on a back surface opposite to the tray's mounting surface for mounting the disc-shaped recording medium; a lack portion is formed where the reflective foil is absent corresponding to a size of the disc-shaped recording medium; and it is judged such that the disc-shaped recording medium is properly mounted if the tray detection means detects the lack portion and if the disc detection means detects the disc-shaped recording medium, while in cases other than the above, it is judged such that the disc-shaped recording medium is not properly mounted.

7. (Cancelled)

8. (Cancelled)

9. (Cancelled)

10. (Cancelled)

11. (Cancelled)